

கிடைத் தமிழ்நாடு அரசு/முழுப் பதிப்புரிமையுடையது/All Rights Reserved]

ஏவ்வகை போடு கறித்த அல் (ஒன் எட்டு) விஜயக, 2018 முதலே
கல்வியின் பொதுத் துறையின் பகுதி (உயர் நிலை) பறிஞர், 2018 முதலே
General Certificate of Education (Adv. Level) Examination, August 2018

18.08.2018 / 0830 – 1100

சூரியனுடைய பொடி பறீக்ஷைகளை பொதுச் சாதாரணப் பரிட்சை **Common General Test**

12 E

இரண்டு மூன்றித்தியாலமும் முப்பது நிமிடமும்
Two hours and thirty minutes

Instructions:

- * Answer all the questions.
- * Use of calculators is not allowed.
- * Write your Index Number in the space provided in the answer sheet.
- * Instructions are given on the back of the answer sheet. Follow those carefully.
- * In each of the questions 1 to 60, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) in accordance with the instructions given on the back of the answer sheet.



23. In a school, 75% of the students who sat the G.C.E.(O/L) examination had passed all 9 subjects. Of the remaining students, 60% had passed 7 or 8 subjects. What percentage of students in the school had passed fewer than 7 subjects?
 (1) 0 (2) 10 (3) 15 (4) 30 (5) 45

24. Each of the four children *A*, *B*, *C* and *D* in a family receives a monthly allowance in the proportion of 5:2:4:3 respectively. If *C* gets rupees 2000 more than *B* gets, what is *D*'s monthly allowance?
 (1) Rs.1500 (2) Rs.2000 (3) Rs.2500 (4) Rs.3000 (5) Rs.3500

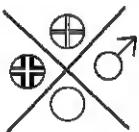
25. The manufacturing cost of a certain item is rupees 150 per item for the first 1000 items. Thereafter the cost for each of subsequent item is rupees 50. How much will it cost in rupees to manufacture 5000 items?
 (1) 300 000 (2) 350 000 (3) 450 000 (4) 600 000 (5) 750 000

26. A train travelling at the speed 30 km h^{-1} enters a tunnel that is 500 m long. The length of the train is 250 m. How long does it take the whole train to pass through the tunnel?
 (1) 1 minute (2) 1.5 minutes (3) 2 minutes (4) 2.5 minutes (5) 3 minutes

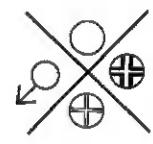
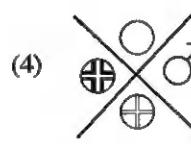
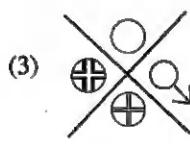
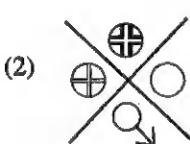
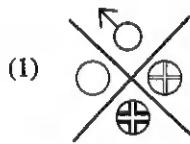
27. A listed price of a certain book was Rs. 900.
 1000 copies of this book were sold as follows:
 * 60% were sold at 50% discount,
 * 20% were sold at 30% discount and
 * the remainder were sold at the listed price.
 What was the total revenue in rupees?
 (1) 500 000 (2) 510 000 (3) 550 000 (4) 576 000 (5) 710 000

28. Two trains **A** and **B** leave the station *X* at the same time and travel in the same direction on parallel rail roads to reach the station *Y* located 75 km away from *X* at the same time. Train **A** travels 50% faster than **B**. Train **B** is travelling non-stop and train **A** has a total of 25 minutes stoppage time in between *X* and *Y*. What is the speed of train **B**?
 (1) 50 km h^{-1} (2) 55 km h^{-1} (3) 60 km h^{-1} (4) 65 km h^{-1} (5) 70 km h^{-1}

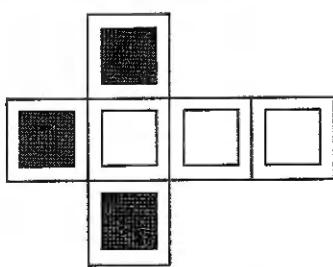
29.



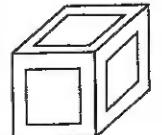
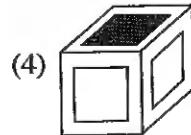
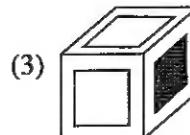
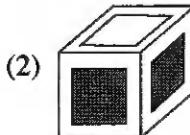
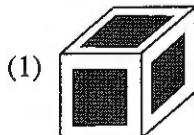
Which one of the following figures is a rotation of this figure?



30. Following is a net for a cube.



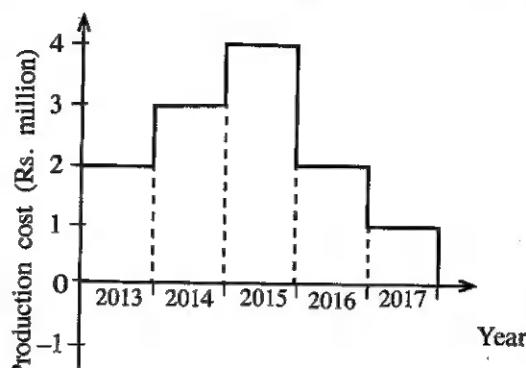
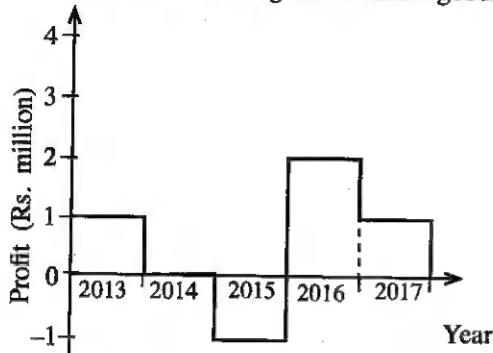
Which of the following figures does not represent the cube made from the above net?



31. Kamal started making envelopes as self-employment and planned to make one bundle per day. During the first day he spent 4 hours to make the bundle. Due to learning effects, his efficiency doubled per day. He made 2 bundles per day from the third day onwards. How long did he work on the fourth day?
 (1) 30 minutes (2) 1 hour (3) 2 hours (4) 4 hours (5) 8 hours

● Questions No. 32 and 33 are based on the following:

The following two graphs show the profit and production cost per year over the last 5 years of a firm manufacturing consumable goods.



32. In which year did the firm generate the highest revenue by selling the goods during last 5 years?
 (1) 2013 (2) 2014 (3) 2015 (4) 2016 (5) 2017

33. What is the total revenue generated by the firm within the last 5 years?
 (1) Rs. 5 million (2) Rs. 10 million (3) Rs. 15 million (4) Rs. 20 million (5) Rs. 25 million

● For questions No. 34 and 35, refer the following:

Six pebbles labelled **A**, **B**, **C**, **D**, **E**, **F** are arranged circularly so that **E** and **F** are adjacent but **A** and **B** are non-adjacent and, **C** and **D** also are non-adjacent.

34. Which two pebbles are on the same side of the line joining **A** and **F** if **B** is adjacent to both **C** and **F**?
 (1) **B** and **C** (2) **B** and **D** (3) **B** and **E** (4) **C** and **D** (5) **C** and **E**

35. If **A** is adjacent to both **D** and **E**, which pair is adjacent to **F**?
 (1) **B** and **C** (2) **B** and **D** (3) **B** and **E** (4) **C** and **E** (5) **D** and **E**

● Questions No. 36 to 38 are based on the following:

A, **B**, **C**, **D** and **E** are five security officers of a company who work on shifts. Only one officer present in each shift. They come to work from Monday to Friday. Each day has three shifts: morning, afternoon and night. Thus the whole week is divided to 15 shifts, where each officer is doing 3 shifts. Further, no officer is doing 2 consecutive shifts. Regarding a particular week, the following information is known.

- * **A** has worked only on Wednesday and Thursday.
- * **B** has done only night shifts, which were on three consecutive days.
- * **C** has done only afternoon shifts, which were on three consecutive days.
- * **B** has taken the following shift after **D**'s shift on two occasions.

36. Who did the Thursday afternoon shift?
 (1) **A** (2) **B** (3) **C** (4) **D** (5) **E**

37. Who did the Monday morning shift?
 (1) **A** (2) **B** (3) **C** (4) **D** (5) **E**

38. What is the total number of night shifts done by **D** and **E**?
 (1) 0 (2) 1 (3) 2 (4) 3 (5) 4

- Question No. 39 and 40 are based on the following conversation of three people.

1st person : Mrs. Perera had been abroad.

2nd person : Actually she had visited three countries or perhaps more.

3rd person : Not so, she had never visited two countries.

39. If Mrs. Perera visited a country she had not been before, number of persons speaking truth in above conversation will decrease. How many countries had she visited till today, if this is the case?

(1) 9 (2) 1 (3) 2 (4) 3 (5) 4

40. Mrs. Perera who recently came from abroad observes that only one person is speaking truth in the above conversation. How many countries had she visited?

(1) 9 (2) 1 (3) 2 (4) 3 (5) 4

41. Which of the following pairs of observation and conclusion might **not** be valid, when the two were interchanged?

Observation	Conclusion
(1) X is a Wednesday.	X + 1 is a Thursday.
(2) X is even.	X + 1 is odd.
(3) X is measured in kilograms.	X + 1 is measured in kilograms.
(4) X is a leap year.	X + 1 is a common year.
(5) X = 2X	X = 0

- In questions No. 42 and 43, a statement and five observations are given. Which of the observations, if true, will most seriously weaken the credibility of the given statement?

42. Statement: Rainfall increases humidity in coastal areas.

(1) Galle was more humid than Kandy in the dry season.
(2) Kandy was more humid than Galle in the dry season.
(3) Humidity decreases when going from Galle to Kandy.
(4) Galle was less humid in rainy season than in dry season.
(5) Kandy was more humid in rainy season than in dry season.

43. Statement: This year, the company ‘Naranbiq’ has increased its quota for women representation in the director board.

- (1) Naranbiq hired less female workers this year than in the last.
- (2) Naranbiq's director board has more male members this year than in the last.
- (3) Naranbiq's director board has less female members this year than in the last.
- (4) During the last two years, Naranbiq has not promoted any female worker to the post of director.
- (5) Naranbiq's only female director for four years resigned very recently.

44. Select the conceptually different sequence.

- (1) 2015 → 2016 → 2017 → 2018
- (2) Breakfast → Lunch → Tea → Dinner
- (3) North → East → South → West
- (4) 12.00 noon → 6.00 p.m. → 12.00 midnight → 6.00 a.m.
- (5) North-West → South-West → South-East → North-East

45. A military group received a secret message XBSEIJUX which they deciphered as WITHDRAW. Which of the following is deciphered to the word CONCEALED?

- Questions 46 and 47 are based on the following information related to five children D, M, N, T and V:
 - * M is lighter than V.
 - * T is heavier than N.
 - * D is heavier than M.
 - * N and V are equal in weight.

46. Which of the following could be deduced from the above?

- T** is heavier than **D**.
- V** is lighter than **D**.
- T** is lighter than **V**.
- D** is lighter than **N**.
- T** is heavier than **M**.

47. Which of the following statements can be concluded using only the above data?

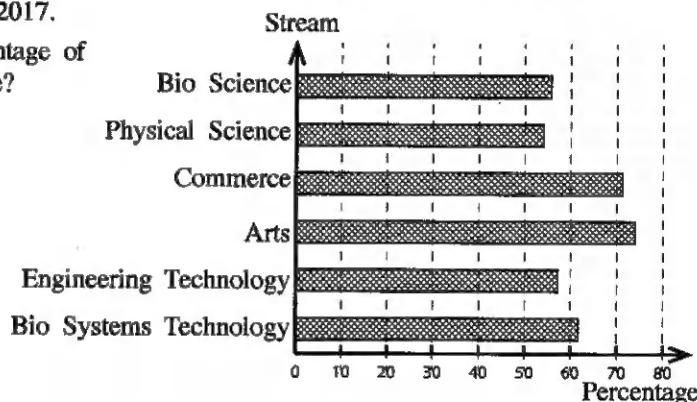
- It is possible to determine the second heavier person.
- It is possible to determine both the lightest person and the heaviest person.
- It is not possible to determine either the lightest person or the heaviest person.
- It is possible to determine the lightest but not the heaviest person.
- It is possible to determine the heaviest person but not the lightest person.

48. The following graph shows the percentages of school candidates by stream who were eligible for university entrance in the G.C.E. (A/L) examination 2017.

What is the stream having the **least** percentage of **ineligible** candidates for university entrance?

- Bio Science
- Physical Science
- Commerce
- Arts
- Bio Systems Technology

Stream	Ineligible Candidates (%)
Bio Science	~15%
Physical Science	~25%
Commerce	~20%
Arts	~22%



● In questions No. 49, 50 and 51, a conclusion and an information set of three statements numbered I, II and III are given.

- * If the conclusion can be made by using only one statement, select A.
- * If the conclusion can be made by using I and II together, select B.
- * If the conclusion can be made by using I and III together, select C.
- * If the conclusion can be made by using II and III together, select D.
- * If the conclusion can be made by using I, II and III together, select E.

49. Conclusion : Port city is being developed on a man-made earth dune covering an area of 2.69 sq. km in the sea of port area.

I - Port city project is approved by previous and present governments.
II - China and Sri Lanka have signed memorandum of understanding on this project.
III - Some environmentalists and politicians are concerned about this project.

(1) A (2) B (3) C (4) D (5) E

50. Conclusion : Music lessens mental stress.

I - Doctors advise to occupy with hobbies including listening to music.
II - Walking and diet control improve health of heart patients.
III - Strain caused by mental stress would be unwound by music therapy.

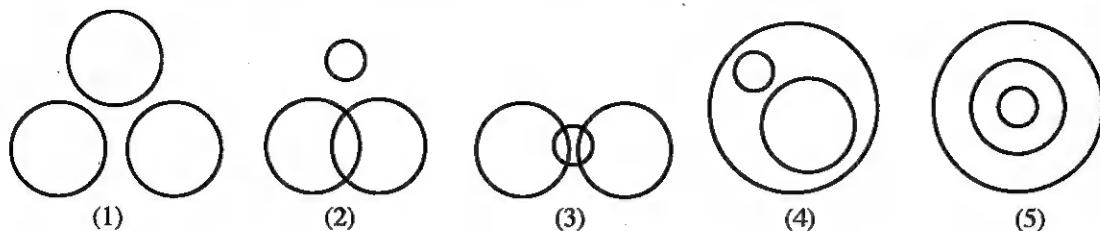
(1) A (2) B (3) C (4) D (5) E

51. Conclusion : Dengue is a dangerous disease.

I - Dengue is caused by Dengue virus.
II - Dengue patients possess very high fever continuously.
III - Unattended Dengue patients succumb to death.

(1) A (2) B (3) C (4) D (5) E

52. Which one of the following diagrams represents the relationship between Professionals, Doctors and Engineers?



● Questions No. 53 and 54 are based on the following paragraph.

Diabetic centres are being established in general hospitals in Sri Lanka. In each centre diabetic patients are being examined by specialists and a report is submitted annually on their physical measurements, blood and urine analysis on lipid profile, blood sugar and urine micro-albumin levels. The report also consists of present treatments and future suggestions.

53. This passage describes about

- (1) different kinds of non-infectious diseases.
- (2) past and present treatments for patients.
- (3) different modes of transferring diabetism from mother to the child.
- (4) blood, urine and X-ray reports obtained at diabetic centres.
- (5) diabetic centres and their functions.

54. Which of the following is not explicitly said in the paragraph?

- (1) Different kinds of diabetic diseases.
- (2) Different tests for diabetic patients.
- (3) Present treatment the patient is undergoing.
- (4) Blood and urine samples tested for certain parameters.
- (5) Diabetic centres established at general hospitals.

● In each of the questions No. 55 and 56, five short passages, each with three statements, are given. In only one of the passages the three statements can be rearranged in order to show a logical relationship. Select the passage which contains the statements that can be rearranged to show a logical relationship.

55. (1) Alarm of the table clock is not ringing due to a fault of the clock. Mother sets the alarm of the table clock before going to sleep. Nobody wakes up at 5.00 a.m.

(2) Alarm of the table clock is ringing at 5.00 a.m. Daughter sets the alarm of the table clock before going to sleep. Mother wakes up at the alarm to go to hospital.

(3) Machineries are used for paddy cultivation. Paddy harvesting machine has arrived. The job is done in a much shorter time.

(4) Paddy harvesting machine is harvesting the paddy. Machineries are used nowadays for paddy cultivation. It is cheaper to use machineries.

(5) Farm machineries are used not only for paddy harvesting but for several purposes of cultivation. Machineries are cheaper. Machineries are quicker.

56. (1) By distillation of toddy, arrack is manufactured. Toddy is also consumed directly. Government intends to reduce consumption of cigarettes and hard liquor.

(2) Toddy consists of alcohol and very little protein, sugar, vitamins and minerals. Arrack consists mainly of alcohol. Sweet toddy (unfermented) consists mainly of sugar and proteins, vitamins and minerals.

(3) Sweet toddy and toddy are extracted from Coconut, Kitul and Palmyrah. Coconut is grown throughout Sri Lanka. Palmyrah is grown in North-East and Kitul in up country of Sri Lanka.

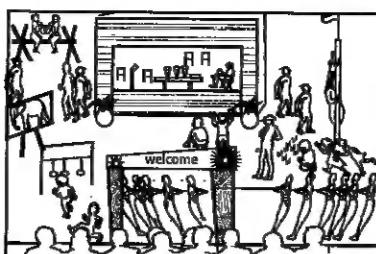
(4) Heavy rain causes flood and landslides. Government pays compensation to affected people. Due to flood and landslides houses are damaged and at times it causes injury and death to the people.

(5) Landslides due to heavy rain occur mainly in hill country. Heavy flood causes house damage due to heavy rain. Heavy wind also causes damage to houses and death to the people.

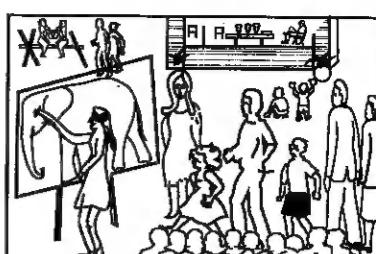
57. Six pictures related to a particular incident are given below. Choose the response which arranges the pictures in a correct sequence.



A



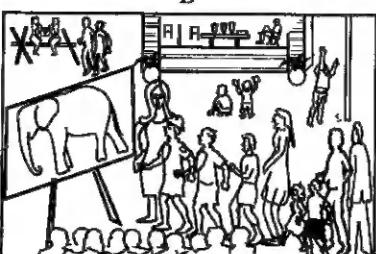
B



C



D



E



F

(1) ABCDEF (2) ABDEC F (3) ABECDF (4) BADEC F (5) BAEDCF

● Questions No. 58, 59 and 60 are based on the parts of a conversation given below that took place between a electricity meter reader and a lady at her home, but these are not in the correct sequence.

A: Good morning meter reader, please go ahead.
 B: Good morning madam, shall I come in to take the electricity meter reading?
 C: Why is the amount in this time higher than the usual?
 D: The amount is high because the reading has exceeded the number of concessionary units.
 E: What is wrong with him?
 F: He is having continuous fever with high temperature and suspected for Dengue.
 G: I see that electricity meter surroundings are untidy and covered with cob-webs.
 H: Here is the electricity statement with meter readings, the amount to be paid and arrears, if any.
 I: I am sorry that I could not keep the place clean as I was busy with my brother who is sick and hospitalized.
 J: As far as possible you have to switch off unnecessarily burning of bulbs, use energy saving LED bulbs, reduce the use of high electricity consuming appliances including the ceiling fan.
 K: What are the methods to reduce the consumption of electricity?
 L: Thank you!

58. In the conversation, what are the parts made by the meter reader?

(1) ADEGHJ (2) ADEHIJ (3) BDEGHJ (4) BDFGHJ (5) BDFGJK

59. In the conversation, what are the parts made by the lady?

(1) ACFIKL (2) ACHIKL (3) AFGIKL (4) BCFIKL (5) BCHJKL

60. Select the most logical sequence of the conversation.

(1) ABGIEFHCKJDL (2) ABHCGIEFDKJL
 (3) BAGIEFHCDKJL (4) BAGIHCEFDKJL
 (5) BAHCGIEFDKJL

* * *